RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/617,334A

Source: 1FW/6

Date Processed by STIC: 11/16/06

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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/10/617,334A**

DATE: 11/16/2006
TIME: 09:19:19

Input Set : **A:\Xenon 91.txt**
Output Set: **N:\CRF4\11162006\J617334A.raw**

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 5 <110> APPLICANT: Hayden, Michael R.
 6        Brooks-Wilson, Angela R.
 8 <120> TITLE OF INVENTION: METHODS AND REAGENTS FOR MODULATING CHOLESTEROL LEVELS
10 <130> FILE REFERENCE: 760050-91
12 <140> CURRENT APPLICATION NUMBER: 10/617,334A
13 <141> CURRENT FILING DATE: 2003-07-10
15 <150> PRIOR APPLICATION NUMBER: 09/526,193
16 <151> PRIOR FILING DATE: 2000-03-15
18 <150> PRIOR APPLICATION NUMBER: 60/124,702
19 <151> PRIOR FILING DATE: 1999-03-15
21 <150> PRIOR APPLICATION NUMBER: 60/138,048
22 <151> PRIOR FILING DATE: 1999-06-08
24 <150> PRIOR APPLICATION NUMBER: 60/139,600
25 <151> PRIOR FILING DATE: 1999-06-17
27 <150> PRIOR APPLICATION NUMBER: 60/151,977
28 <151> PRIOR FILING DATE: 1999-09-01
30 <160> NUMBER OF SEQ ID NOS: 290
32 <170> SOFTWARE: PatentIn 3.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 2261
36 <212> TYPE: PRT
37 <213> ORGANISM: Homo sapiens
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41 1               5                   10                  15
42 Phe Arg Arg Arg Gln Thr Cys Gln Leu Leu Leu Glu Val Ala Trp Pro
43             20                  25                  30
44 Leu Phe Ile Phe Leu Ile Leu Ile Ser Val Arg Leu Ser Tyr Pro Pro
45         35                  40                  45
46 Tyr Glu Gln His Glu Cys His Phe Pro Asn Lys Ala Met Pro Ser Ala
47     50                  55                  60
48 Gly Thr Leu Pro Trp Val Gln Gly Ile Ile Cys Asn Ala Asn Asn Pro
49 65                  70                  75                  80
50 Cys Phe Arg Tyr Pro Thr Pro Gly Glu Ala Pro Gly Val Val Gly Asn
51                 85                  90                  95
52 Phe Asn Lys Ser Ile Val Ala Arg Leu Phe Ser Asp Ala Arg Arg Leu
53             100                 105                 110
54 Leu Leu Tyr Ser Gln Lys Asp Thr Ser Met Lys Asp Met Arg Lys Val
55         115                 120                 125
56 Leu Arg Thr Leu Gln Gln Ile Lys Lys Ser Ser Ser Asn Leu Lys Leu
57     130                 135                 140
58 Gln Asp Phe Leu Val Asp Asn Glu Thr Phe Ser Gly Phe Leu Tyr His
59 145                 150                 155                 160
```

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60 Asn Leu Ser Leu Pro Lys Ser Thr Val Asp Lys Met Leu Arg Ala Asp
61               165             170             175
62 Val Ile Leu His Lys Val Phe Leu Gln Gly Tyr Gln Leu His Leu Thr
63       .     180             185             190
64 Ser Leu Cys Asn Gly Ser Lys Ser Glu Glu Met Ile Gln Leu Gly Asp
65           195             200             205
66 Gln Glu Val Ser Glu Leu Cys Gly Leu Pro Arg Glu Lys Leu Ala Ala
67       210             215             220
68 Ala Glu Arg Val Leu Arg Ser Asn Met Asp Ile Leu Lys Pro Ile Leu
69 225             230             235             240
70 Arg Thr Leu Asn Ser Thr Ser Pro Phe Pro Ser Lys Glu Leu Ala Glu
71               245             250             255
72 Ala Thr Lys Thr Leu Leu His Ser Leu Gly Thr Leu Ala Gln Glu Leu
73           260             265             270
74 Phe Ser Met Arg Ser Trp Ser Asp Met Arg Gln Glu Val Met Phe Leu
75           275             280             285
76 Thr Asn Val Asn Ser Ser Ser Ser Ser Thr Gln Ile Tyr Gln Ala Val
77       290             295             300
78 Ser Arg Ile Val Cys Gly His Pro Glu Gly Gly Gly Leu Lys Ile Lys
79 305             310             315             320
80 Ser Leu Asn Trp Tyr Glu Asp Asn Asn Tyr Lys Ala Leu Phe Gly Gly
81               325             330             335
82 Asn Gly Thr Glu Glu Asp Ala Glu Thr Phe Tyr Asp Asn Ser Thr Thr
83               340             345             350
84 Pro Tyr Cys Asn Asp Leu Met Lys Asn Leu Glu Ser Ser Pro Leu Ser
85           355             360             365
86 Arg Ile Ile Trp Lys Ala Leu Lys Pro Leu Leu Val Gly Lys Ile Leu
87       370             375             380
88 Tyr Thr Pro Asp Thr Pro Ala Thr Arg Gln Val Met Ala Glu Val Asn
89 385             390             395             400
90 Lys Thr Phe Gln Glu Leu Ala Val Phe His Asp Leu Glu Gly Met Trp
91               405             410             415
92 Glu Glu Leu Ser Pro Lys Ile Trp Thr Phe Met Glu Asn Ser Gln Glu
93           420             425             430
94 Met Asp Leu Val Arg Met Leu Leu Asp Ser Arg Asp Asn Asp His Phe
95           435             440             445
96 Trp Glu Gln Gln Leu Asp Gly Leu Asp Trp Thr Ala Gln Asp Ile Val
97       450             455             460
98 Ala Phe Leu Ala Lys His Pro Glu Asp Val Gln Ser Ser Asn Gly Ser
99 465             470             475             480
100 Val Tyr Thr Trp Arg Glu Ala Phe Asn Glu Thr Asn Gln Ala Ile Arg
101               485             490             495
102 Thr Ile Ser Arg Phe Met Glu Cys Val Asn Leu Asn Lys Leu Glu Pro
103           500             505             510
104 Ile Ala Thr Glu Val Trp Leu Ile Asn Lys Ser Met Glu Leu Leu Asp
105           515             520             525
106 Glu Arg Lys Phe Trp Ala Gly Ile Val Phe Thr Gly Ile Thr Pro Gly
107       530             535             540
108 Ser Ile Glu Leu Pro His His Val Lys Tyr Lys Ile Arg Met Asp Ile
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PATENT APPLICATION: US/10/617,334A   TIME: 09:19:19

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109 545                 550                 555                 560
110 Asp Asn Val Glu Arg Thr Asn Lys Ile Lys Asp Gly Tyr Trp Asp Pro
111                 565                 570                 575
112 Gly Pro Arg Ala Asp Pro Phe Glu Asp Met Arg Tyr Val Trp Gly Gly
113                 580                 585                 590
114 Phe Ala Tyr Leu Gln Asp Val Val Glu Gln Ala Ile Ile Arg Val Leu
115                 595                 600                 605
116 Thr Gly Thr Glu Lys Lys Thr Gly Val Tyr Met Gln Gln Met Pro Tyr
117         610                 615                 620
118 Pro Cys Tyr Val Asp Asp Ile Phe Leu Arg Val Met Ser Arg Ser Met
119 625                 630                 635                 640
120 Pro Leu Phe Met Thr Leu Ala Trp Ile Tyr Ser Val Ala Val Ile Ile
121                 645                 650                 655
122 Lys Gly Ile Val Tyr Glu Lys Glu Ala Arg Leu Lys Glu Thr Met Arg
123                 660                 665                 670
124 Ile Met Gly Leu Asp Asn Ser Ile Leu Trp Phe Ser Trp Phe Ile Ser
125         675                 680                 685
126 Ser Leu Ile Pro Leu Leu Val Ser Ala Gly Leu Leu Val Val Ile Leu
127         690                 695                 700
128 Lys Leu Gly Asn Leu Leu Pro Tyr Ser Asp Pro Ser Val Val Phe Val
129 705                 710                 715                 720
130 Phe Leu Ser Val Phe Ala Val Val Thr Ile Leu Gln Cys Phe Leu Ile
131                 725                 730                 735
132 Ser Thr Leu Phe Ser Arg Ala Asn Leu Ala Ala Ala Cys Gly Gly Ile
133                 740                 745                 750
134 Ile Tyr Phe Thr Leu Tyr Leu Pro Tyr Val Leu Cys Val Ala Trp Gln
135         755                 760                 765
136 Asp Tyr Val Gly Phe Thr Leu Lys Ile Phe Ala Ser Leu Leu Ser Pro
137         770                 775                 780
138 Val Ala Phe Gly Phe Gly Cys Glu Tyr Phe Ala Leu Phe Glu Glu Gln
139 785                 790                 795                 800
140 Gly Ile Gly Val Gln Trp Asp Asn Leu Phe Glu Ser Pro Val Glu Glu
141                 805                 810                 815
142 Asp Gly Phe Asn Leu Thr Thr Ser Val Ser Met Met Leu Phe Asp Thr
143                 820                 825                 830
144 Phe Leu Tyr Gly Val Met Thr Trp Tyr Ile Glu Ala Val Phe Pro Gly
145         835                 840                 845
146 Gln Tyr Gly Ile Pro Arg Pro Trp Tyr Phe Pro Cys Thr Lys Ser Tyr
147         850                 855                 860
148 Trp Phe Gly Glu Glu Ser Asp Glu Lys Ser His Pro Gly Ser Asn Gln
149 865                 870                 875                 880
150 Lys Arg Ile Ser Glu Ile Cys Met Glu Glu Glu Pro Thr His Leu Lys
151                 885                 890                 895
152 Leu Gly Val Ser Ile Gln Asn Leu Val Lys Val Tyr Arg Asp Gly Met
153                 900                 905                 910
154 Lys Val Ala Val Asp Gly Leu Ala Leu Asn Phe Tyr Glu Gly Gln Ile
155         915                 920                 925
156 Thr Ser Phe Leu Gly His Asn Gly Ala Gly Lys Thr Thr Thr Met Ser
157         930                 935                 940
```

```
158 Ile Leu Thr Gly Leu Phe Pro Pro Thr Ser Gly Thr Ala Tyr Ile Leu
159 945                 950                 955                 960
160 Gly Lys Asp Ile Arg Ser Glu Met Ser Thr Ile Arg Gln Asn Leu Gly
161                 965                 970                 975
162 Val Cys Pro Gln His Asn Val Leu Phe Asp Met Leu Thr Val Glu Glu
163                 980                 985                 990
164 His Ile Trp Phe Tyr Ala Arg Leu Lys Gly Leu Ser Glu Lys His Val
165             995                 1000                1005
166 Lys Ala Glu Met Glu Gln Met Ala Leu Asp Val Gly Leu Pro Ser Ser
167     1010                1015                1020
168 Lys Leu Lys Ser Lys Thr Ser Gln Leu Ser Gly Gly Met Gln Arg Lys
169 1025                1030                1035                1040
170 Leu Ser Val Ala Leu Ala Phe Val Gly Gly Ser Lys Val Val Ile Leu
171                 1045                1050                1055
172 Asp Glu Pro Thr Ala Gly Val Asp Pro Tyr Ser Arg Arg Gly Ile Trp
173                 1060                1065                1070
174 Glu Leu Leu Leu Lys Tyr Arg Gln Gly Arg Thr Ile Ile Leu Ser Thr
175         1075                1080                1085
176 His His Met Asp Glu Ala Asp Val Leu Gly Asp Arg Ile Ala Ile Ile
177     1090                1095                1100
178 Ser His Gly Lys Leu Cys Cys Val Gly Ser Ser Leu Phe Leu Lys Asn
179 1105                1110                1115                1120
180 Gln Leu Gly Thr Gly Tyr Tyr Leu Thr Leu Val Lys Lys Asp Val Glu
181                 1125                1130                1135
182 Ser Ser Leu Ser Ser Cys Arg Asn Ser Ser Ser Thr Val Ser Tyr Leu
183                 1140                1145                1150
184 Lys Lys Glu Asp Ser Val Ser Gln Ser Ser Ser Asp Ala Gly Leu Gly
185         1155                1160                1165
186 Ser Asp His Glu Ser Asp Thr Leu Thr Ile Asp Val Ser Ala Ile Ser
187     1170                1175                1180
188 Asn Leu Ile Arg Lys His Val Ser Glu Ala Arg Leu Val Glu Asp Ile
189 1185                1190                1195                1200
190 Gly His Glu Leu Thr Tyr Val Leu Pro Tyr Glu Ala Ala Lys Glu Gly
191                 1205                1210                1215
192 Ala Phe Val Glu Leu Phe His Glu Ile Asp Asp Arg Leu Ser Asp Leu
193                 1220                1225                1230
194 Gly Ile Ser Ser Tyr Gly Ile Ser Glu Thr Thr Leu Glu Glu Ile Phe
195         1235                1240                1245
196 Leu Lys Val Ala Glu Glu Ser Gly Val Asp Ala Glu Thr Ser Asp Gly
197     1250                1255                1260
198 Thr Leu Pro Ala Arg Arg Asn Arg Arg Ala Phe Gly Asp Lys Gln Ser
199 1265                1270                1275                1280
200 Cys Leu Arg Pro Phe Thr Glu Asp Asp Ala Ala Asp Pro Asn Asp Ser
201                 1285                1290                1295
202 Asp Ile Asp Pro Glu Ser Arg Glu Thr Asp Leu Leu Ser Gly Met Asp
203             1300                1305                1310
204 Gly Lys Gly Ser Tyr Gln Val Lys Gly Trp Lys Leu Thr Gln Gln Gln
205         1315                1320                1325
206 Phe Val Ala Leu Leu Trp Lys Arg Leu Leu Ile Ala Arg Arg Ser Arg
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207      1330              1335              1340
208 Lys Gly Phe Phe Ala Gln Ile Val Leu Pro Ala Val Phe Val Cys Ile
209 1345              1350              1355              1360
210 Ala Leu Val Phe Ser Leu Ile Val Pro Pro Phe Gly Lys Tyr Pro Ser
211              1365              1370              1375
212 Leu Glu Leu Gln Pro Trp Met Tyr Asn Glu Gln Tyr Thr Phe Val Ser
213              1380              1385              1390
214 Asn Asp Ala Pro Glu Asp Thr Gly Thr Leu Glu Leu Leu Asn Ala Leu
215         1395              1400              1405
216 Thr Lys Asp Pro Gly Phe Gly Thr Arg Cys Met Glu Gly Asn Pro Ile
217      1410              1415              1420
218 Pro Asp Thr Pro Cys Gln Ala Gly Glu Glu Glu Trp Thr Thr Ala Pro
219 1425              1430              1435              1440
220 Val Pro Gln Thr Ile Met Asp Leu Phe Gln Asn Gly Asn Trp Thr Met
221              1445              1450              1455
222 Gln Asn Pro Ser Pro Ala Cys Gln Cys Ser Ser Asp Lys Ile Lys Lys
223         1460              1465              1470
224 Met Leu Pro Val Cys Pro Pro Gly Ala Gly Gly Leu Pro Pro Pro Gln
225         1475              1480              1485
226 Arg Lys Gln Asn Thr Ala Asp Ile Leu Gln Asp Leu Thr Gly Arg Asn
227      1490              1495              1500
228 Ile Ser Asp Tyr Leu Val Lys Thr Tyr Val Gln Ile Ile Ala Lys Ser
229 1505              1510              1515              1520
230 Leu Lys Asn Lys Ile Trp Val Asn Glu Phe Arg Tyr Gly Gly Phe Ser
231              1525              1530              1535
232 Leu Gly Val Ser Asn Thr Gln Ala Leu Pro Pro Ser Gln Glu Val Asn
233         1540              1545              1550
234 Asp Ala Ile Lys Gln Met Lys Lys His Leu Lys Leu Ala Lys Asp Ser
235         1555              1560              1565
236 Ser Ala Asp Arg Phe Leu Asn Ser Leu Gly Arg Phe Met Thr Gly Leu
237      1570              1575              1580
238 Asp Thr Arg Asn Asn Val Lys Val Trp Phe Asn Asn Lys Gly Trp His
239 1585              1590              1595              1600
240 Ala Ile Ser Ser Phe Leu Asn Val Ile Asn Asn Ala Ile Leu Arg Ala
241              1605              1610              1615
242 Asn Leu Gln Lys Gly Glu Asn Pro Ser His Tyr Gly Ile Thr Ala Phe
243         1620              1625              1630
244 Asn His Pro Leu Asn Leu Thr Lys Gln Gln Leu Ser Glu Val Ala Leu
245         1635              1640              1645
246 Met Thr Thr Ser Val Asp Val Leu Val Ser Ile Cys Val Ile Phe Ala
247      1650              1655              1660
248 Met Ser Phe Val Pro Ala Ser Phe Val Val Phe Leu Ile Gln Glu Arg
249 1665              1670              1675              1680
250 Val Ser Lys Ala Lys His Leu Gln Phe Ile Ser Gly Val Lys Pro Val
251              1685              1690              1695
252 Ile Tyr Trp Leu Ser Asn Phe Val Trp Asp Met Cys Asn Tyr Val Val
253              1700              1705              1710
254 Pro Ala Thr Leu Val Ile Ile Ile Phe Ile Cys Phe Gln Gln Lys Ser
255         1715              1720              1725
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Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:14; N Pos. 9965,9966,9967,9968,9969,9970
Seq#:19; N Pos. 251
Seq#:21; N Pos. 19998
Seq#:29; N Pos. 1,5,6,10,15,24,25,26,27,28,34,37,38,42,43,46,48,49,50,67,72
Seq#:29; N Pos. 80,84,91,97,99,102,113,117,122,125,135
Seq#:39; N Pos. 8
Seq#:54; N Pos. 14,15,18,20,22,23,25
Seq#:61; N Pos. 13,15,16,18,20,21
Seq#:69; N Pos. 8

VERIFICATION SUMMARY DATE: 11/16/2006
PATENT APPLICATION: **US/10/617,334A** TIME: 09:19:20

Input Set : **A:\Xenon 91.txt**
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L:728 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:14 after pos.:9960
L:1000 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:240
L:1518 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:21 after pos.:19980
L:2069 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
M:341 Repeated in SeqNo=29
L:2241 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:2367 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:0
L:2428 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:61 after pos.:0
L:2497 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:69 after pos.:0
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